

## Curriculum Vitae

### Umasree Dhar



#### PRESENT ADDRESS:

Associate Professor (Physics), Open School  
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#### PERMANENT ADDRESS:

C/O: Babul Kanti Dhar  
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#### RESEARCH INTEREST

Material science (Nanoscience), Biomedicine and Open and Distance Education.

#### KEY SKILLS

Experienced in general lab techniques in basic physics during undergraduate level and in the field of material science during graduate level in order to observe the correlation between magnetic softness with microstructural properties compared to typical FINEMET composition i.e.  $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$  including X-ray diffraction method, frequency analyser measurement, Curie temperature measurement.

#### EDUCATION

##### Present:

PhD researcher at University of Dhaka.

##### 2004-2005:

##### Master of Science in Physics (MS)

Department of Physics, University of Chittagong, Chittagong,, Bangladesh  
Result: **GPA 3.65 (Out of 4).**

##### 2000-2004:

##### Bachelor of Science in Physics (Hons.)

Department of Physics, University of Chittagong, Chittagong, Bangladesh  
Result: **CGPA 3.62 (Out of 4)**

#### RESEARCH EXPERIENC

##### 1. January/2009- May/2009

##### MS level

**Umasree Dhar.** 2009. *A Thorough Study of the Evolution of Nanocrystalline Structure and Correlation of Its Ultra-soft Magnetic Properties of  $Fe_{74}Cu_{0.8}Nb_{2.7}Si_{15.5}B_7$ .* MS thesis submitted to the Department of Physics, University of Chittagong, Chittagong, Bangladesh.

**Laboratory:** Atomic Energy Centre, Dhaka, Bangladesh.

**Supervisor:** Professor Deba Prasad Paul, PhD. (MS thesis, Bangladesh).

2. Project title “Challenges and Prospects of Science Education in ODL: A Study on Secondary School Certificate and Higher Secondary School Certificate Program of Bangladesh Open University”, Fiscal Year 2017-2018, Funded by Bangladesh Open University.

## PUBLICATIONS

1. Hoque, S. M., Hakim M. A., **Dhar, U.**, Saha, D. K., Nordblad, P. & Paul, D. P (2011) Detailed study of ultra-soft magnetic properties of  $Fe_{74}Cu_{0.8}Nb_{2.7}Si_{15.5}B_7$ , *Philosophical Magazine*, 91(16), 2117-2139.
2. Hoque, S. M., Hakim M. A., Dhar, U., Saha, D. K. & Das, H. N. (2011) Evolution of nanograins and softmagnetic properties of  $Fe_{74}Cu_{0.8}Nb_{2.7}Si_{15.5}B_7$  by isothermal annealing. *Modern Physics Letters B*, 25 (14), 1241-1251.
3. **Dhar, U. & Ratna, M. M.**(2017) Mainstreaming e-learning as a Tool for Distance Education in Digital Bangladesh: The Bangladesh Open University, *Journal of Open School*, 5(1), 1-14, Open School, Bangladesh Open University.
4. **Dhar, U.**, Hoque S. M. & Paul, D. P. (2017). Compare the structural and magnetic softness of nanocrystalline alloy  $Fe_{74}Cu_{0.8}Nb_{2.7}Si_{15.5}B_7$  at annealing temperature 580°C and 650°C for different annealing time. *International Journal of Metallurgical & material Science and Engineering*, 7(3).
5. **Dhar, U.** (2019). Learners’ Perception on e-Learning Based Education: A Case of Bangladesh Open University, *Bangladesh Open University Journal of Open School*, 6(1), 17-30, Open School, Bangladesh Open University.
6. **Dhar, U.**, Ratna, M. M., Sattar, M. A. & Hossain, A. N. M. (2020). Assessing the Status of Blended Learning Models: A Study on the Learners Perspective in Bangladesh Open University, *Bangladesh Open University Journal of Business Studies*, 6(1), 109-116, School of Business, Bangladesh Open University.
7. Ratna, M. M., Sattar, M. A. & **Dhar, U** (2021). Assessing The Obstacles in Blended Learning for the SSC Program Learners of Bangladesh Open University, *Bangladesh Open University Central Journal*, V(1), 49-62, Bangladesh Open University.
8. **Dhar, U. & Ratna, M. M.** (2021). Up-Skilling the Female Workers of Ready Made Garments through ODL in Bangladesh, *Bangladesh Open University Journal of Open School*, 7(2), 73-80, Open School, Bangladesh Open University.
9. **Dhar, U.** (2022). Suggestions to Increase the Prospects of Science Education through ODL in Bangladesh Open University,: Learners’ Perspective, *Bangladesh Open University Journal of Open School*, 8(1), 29-40, Open School, Bangladesh Open University.
10. **Dhar, U.** Sattar, M. A. and Ahmed, A. (2024). Challenges of Open and Distance Learning in Departing Education for Learners of Science Group: A Study on Bangladesh Open University, *Creative Education*, 14, 2472-2485. <https://doi.org/10.4236/ce.2023.1412159>

## WORKSHOP AND TRAINING PARTICIPATION

1. Participated in KOICA (Korea International Cooperation Agency) training based on “ICT and e-Learning System” held at Bangladesh Open University, Gazipur from

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- 15-28 May, 2013 jointly organized by Bangladesh Open University and Korea International Cooperation Agency.
2. Participated in **“e-Learning Training Workshop”** held at Bangladesh Open University, Gazipur from 30 July to 14 August and 17 to 19 September, 2012 jointly organized by Korea International Cooperation Agency and Bangladesh Open University.
  3. Participated in **“Tutor Training Workshop”** held at Bangladesh Open University, Gazipur from 22 to 24 February, 2011 organized by Bangladesh Open University.
  4. Participated in the workshop on **“Creative Methodology of Teaching & Learning”** held at Bangladesh Open University, Gazipur from 26 to 28 December 2011 organized by Bangladesh Open University.
  5. Participated in the **Workshop on Capacity Building Workshop on Development of e-Content to Deliver Digitally** held at Bangladesh Open University, Gazipur from 19-23 January 2016 jointly organized by Bangladesh Open University and Commonwealth Educational Media Centre for Asia, India.
  6. Participated in the workshop on **“Interactive Teaching and Learning at the Tertiary Level: Steps towards Quality & Excellence (2<sup>nd</sup> Batch)”** held at Green University Centre of Excellence for Teaching & Learning, from 7-8 March 2014.
  7. Participated in the SAARC workshop on **“Multimedia Program Development”** held at Bangladesh Open University, Gazipur from 05 to 09 February 2011 jointly organized by Commonwealth of Learning and Bangladesh Open University.
  8. Participated in the workshop on **“Academic and Research Writing for Journals and Conferences”** held at Bangladesh Open University, Gazipur from 28 to 29 April 2014 jointly organized by Center for Development through Open Learning Publishing and Communication and Bangladesh Open University.
  9. Participated in **“OER Capacity Building Programme for BOU Academics”** held at Bangladesh Open University, Gazipur from 03-05 April 2017 jointly organized by Bangladesh Open University and Commonwealth Educational Media Centre for Asia (CEMCA), New Delhi, India.
  10. Participated in the training course on **“Basic Understanding on Disaster Risk Reduction Management and Approaches”** under the Certificate Programme in Disaster Management from 13-17 May 2017 jointly organized by Institute of Disaster Management and Vulnerability Studies, University of Dhaka & Centre for Women and Children Studies (CWCS).

### **INTERNATIONAL SEMINAR, CONFERENCE PRESENTATION AND TRAINING WORKSHOP**

1. Participated in Training Workshop on **“Interweaving of ICT with Open and Distance Learning”** held at National Institute of Open Schooling (NIOS), Uttar Pradesh, India, from September 26 to October 10, 2012
2. **International Seminar on Skill Development through ODeL: Innovation, Entrepreneurship, Employment for Inclusive and Sustainable Livelihoods** held at Indira Gandhi National Open University, New, Delhi, March 2017. Paper titled **“Skill Development through ODL for Female Workers of RMG Sector: A Study on some selected garments industry of Gazipur district of Bangladesh”** presented by Umasree Dhar and Meherin Munjarin Ratna.

- 3. International Conference on Development Interventions and Open Learning for Empowering and Transforming Society** held at Krishna Kanta Handiqui State Open University, Guwahati, Assam, India, December, 2017.

**DECLARATION**

I hereby declare that the above statements are correct and complete to the best of my knowledge.

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(*Umasree Dhar*)

## Appendix I

	<b>Diploma or Degree awarded</b>	<b>Major subjects</b>
Elementary Education	-	English, Mathematics, Bengali, General Science
Secondary Education	Secondary School Certificate (SSC)	English, General Mathematics, Elective Mathematics, Bengali, Geography, General Science
Upper Secondary Education	Higher Secondary Certificate (HSC)	English, Bengali, Mathematics, Physics, Chemistry, Biology
Undergraduate level	B.Sc. (Hons.) in Physics	Mathematical Physics, Properties of Matter, Heat and Thermodynamics, Electronics, Sound, Nuclear Physics-I, Quantum Mechanics, Molecular Physics, Statistical Mechanics, Atmospheric Physics, Solid State Physics, Statistics, Chemistry, Mathematics, Computer.
Graduate level	Master of Science (MS) in Physics	Electrodynamics, Nuclear Physics-II, Renewable Energy, Atmospheric Physics-II